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## MOTOR TRANSPORT TRAFFIC

### PROVINCE OF SASKATCHEWAN

1961



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		7.5
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# PROVINCE OF SASKATCHEWAN JANUARY I - DECEMBER 31, 1961

CHART-I TRUCK REGISTRATIONS BY TYPE OF OPERATION

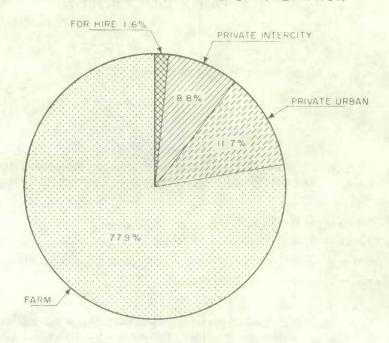
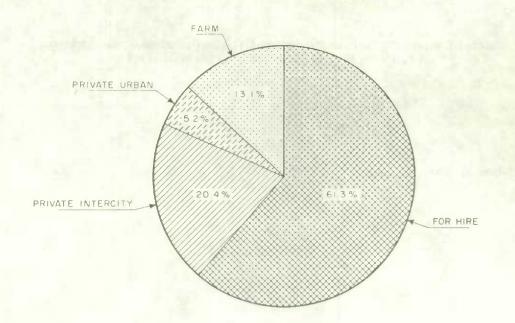


CHART-2 NET TON MILES BY TYPE OF OPERATION



#### INTRODUCTION

The 1961 annual report of motor transport traffic in the Province of Saskatchewan is based upon a sample of approximately 8 per cent of trucks registered in the province. To allow for seasonal variations in traffic and to ensure that the selected vehicles represented current registrations the sample was selected in four quarterly segments with approximately one fourth of the total selected each quarter. Each quarterly sample was spread over three survey weeks with one third of the sample being used for a seven day period, Sunday through Saturday, per month. The surveys were therefore spread over twelve weeks during the year.

All trucks registered in the province are represented except: (a) those not engaged in transportation services; and (b) military and other government-owned vehicles. Trailers as such were excluded from the sample, but details of tractor-trailer combinations were obtained by including the power units or tractors in the survey.

Vehicles in the sample are stratified by type of operation and by gross vehicle weight group. The four functional categories used are: for hire, private intercity, private urban and farm. For hire vehicles are those operated for compensation or gain according to licence; private intercity vehicles are those owned and operated by firms and individuals on intercity routes to transport their own goods; private urban vehicles are those operated only within urban areas; and farm trucks are those operated by farmers primarily to transport farm produce and supplies.

In Saskatchewan trucks operated provincially for compensation are classed as "Public Service Vehicles". Public service vehicles used for transporting general merchandise over a given route or for certified chartered operations are issued with an "A" licence, while those restricted to transporting specified commodities provincially are provided with an "E" licence. Vehicles owned and operated by farmers and used for their own farm operations are classified as farm vehicles and issued with an "F" licence. All other trucks are classified as commercial vehicles and are issued with a "C" licence if used within a radius of 35 miles of the owner's headquarters or a "D" licence if operated provincially.

In this report vehicles have been classified into the four functional categories as follows:

For hire - "A" and "E" licensed vehicles.

Private intercity - "C" and "D" licensed vehicles operating outside urban areas.

Private urban - "C" and "D" licensed vehicles operating only within urban areas.

Farm - "F" licensed vehicles.

It is known that some "C" and "D" licensed trucks are operated for compensation but these vehicles were not included in the for hire category. As a result, the for hire data are understated by the extent of these operations.

Further information on the history and the organization of motor transport traffic surveys may be found in the reports entitled "Motor Transport Traffic, National Estimates", catalogue no. 53-207, for 1957 to 1960.

#### **Expansion of Survey Results**

As this survey is conducted on a sample basis the data obtained for the vehicles included in the sample have to be expanded to represent the traffic of the total truck population. The methods used in this expansion of the raw data have been continually improved. Current procedures are:

- 1. A truck population has to be determined. As each sample is selected quarterly the number of trucks chosen in each sample multiplied by the inverse of the sample selection ratio provides an estimated quarterly population. Prior to 1959 the data for each quarterly sample were expanded to represent the total traffic of the estimated population of the same quarter. In 1959, however, it was decided that it would be preferable to expand data for the four quarterly surveys using a constant population. This constant population would be the peak quarterly population of the previous year calculated by multiplying the sample in each quarter by the inverse of the sample selection ratios.
- The constant population has to be broken down into gross vehicle weight groups and functions. This is already partially done as sample selec-

tions are stratified by licence and weight group. Therefore it is only necessary to multiply the sample in each weight group of each licence category by the inverse of the appropriate selection ratio to arrive at a quarterly population. The four quarterly populations by gross vehicle weight and licence categories are added together and an average weight group and licence category distribution for the year is computed. This weight group and licence category distribution is applied to the constant population. Each licence category except C and D licences corresponds to one function. For the C and D licensed population the average distribution obtained from all the previous year's completed questionnaires is used to divide these vehicles into private intercity and private urban. The above procedure was introduced in 1959. Prior to that year the distribution by function was determined for each quarter separately.

3. When the constant population has been calculated and broken down by function and gross vehicle weight group, it is necessary to allocate vehicles included in current surveys in the same manner. For hire and farm vehicles can be identified immediately by their licences. However, C and D licensed vehicles have to be separated into private urban and private intercity classes according to the area of operation as indicated in the returned questionnaires.

- 4. Expansion ratios for each gross vehicle weight group of each functional category are then calculated by determining for each breakdown the number of vehicles for which completed questionnaires were received or which were not in use during the survey period and dividing this sum into the constant population.
- 5. As the survey results for sample vehicles relate to one week's operations the expansion ratios calculated in (4) have to be multiplied by 13 to cover the three month period.
- The expanded data for the four quarters are added together to arrive at an annual total.

While the changes and improvements in methods of compilation mentioned above will to some extent influence comparisons of data between years the effects should not be overly significant. In addition it is emphasized that since the statistics contained in this report are calculated from a sample survey they are only estimates and not actual figures.

It should be noted that in 1961 the description of commodities transported by trucks was changed to conform with the revised "Standard Commodity Classification" produced by the Dominion Bureau of Statistics. Formerly commodities were classified according to the "Railway Freight Commodity Statistics Classification". The change will enable these data to be compared more easily with other commodity data produced by the Dominion Bureau of Statistics.

#### **Review of Survey Results**

The estimated population of trucks performing transportation services in Saskatchewan during the year rose 3.2 per cent to 107,700 from 104,400 in 1960. Of these, 1,700 or 1.6 per cent were for hire trucks; 9,542 or 8.8 per cent were private intercity vehicles; 12,558 or 11.7 per cent were private vehicles operating wholly within urban areas; and 83,900 or 77.9 per cent were farm trucks.

In the following tables blanks appear for some breakdowns of diesel fuel and other fuel by type of operation and by gross vehicle weight. In most of these instances no vehicles were chosen belonging to these classifications in any of the quarterly sample selections. However in one or two cases a few vehicles were selected but the data collected were considered too unreliable to publish. Even where no vehicles were selected it does not necessarily follow that there were no vehicles in the province belonging to these classifications.

#### Section I: Traffic Inside and Outside the Province

Section I contains estimates of total traffic performed both inside and outside the province by Saskatchewan registered trucks.

Although comprising only 1.6 per cent of Saskatchewan's truck population, for hire vehicles accounted for 61.3 per cent of the total net ton miles and 9.6 per cent of the total tons of goods carried during 1961. This results from the high average yearly mileage of these trucks, 46,600 miles as compared with 4,200 miles for all trucks, and from the heavy average load carried of 11.7 tons compared to 5.3 tons for all trucks. Since nine tenths of all for hire vehicles have a gross vehicle weight of over 10 tons the heavier loads carried by these trucks are to be expected. The predominance of

heavier vehicles in the for hire class also explains the low estimate of miles per gallon of gasoline, 5.3 compared with 9.8 for all trucks.

It is estimated that urban operations accounted for 0.3 per cent of the total net ton miles performed by Saskatchewan registered for hire trucks and 2.3 per cent of the total net ton miles performed by private intercity vehicles.

Some trucks in Saskatchewan under 10,000 lb. gross vehicle weight are used essentially for personal transportation. Such vehicles accounted for about 12 per cent of the total mileage travelled by Saskatchewan registered trucks.

#### Section II: Traffic Within the Province

This section presents estimates of traffic performed by Saskatchewan registered trucks entirely inside the province and excludes the "outside the province" portion of interprovincial and international traffic as well as any traffic performed entirely outside the province. Comparing the data in Section I and Section II it will be noted that for hire vehicles accumulated 42.4 per cent and private intercity 16.4 per cent of their total net ton miles outside Saskatchewan.

#### Section III: Interprovincial and International Traffic

Interprovincial and international traffic accounted for a significant proportion of the total traffic performed by for hire vehicles, representing over one third of the total net ton miles performed and almost one third of the revenue earned by these vehicles. Cver three fifths of the total tons of goods carried in this type of traffic by Saskatchewan registered for hire trucks was transported to or from Manitoba.

#### **Appendix**

During the year survey questionnaires were sent to the owners or operators of 8,066 trucks. Of this number 2,778 were returned completed and 2,945

trucks were reported not used during the survey week. The remaining 2,343 were either returned incomplete and unusable or not returned at all.

## SECTION I. TRAFFIC PERFORMED BY SASKATCHEWAN REGISTERED TRUCKS INSIDE AND OUTSIDE THE PROVINCE JANUARY 1 - DECEMBER 31, 1961

TABLE 1. All Trucks by Type of Operation

	United the state of		Private		
	For hire	Intercity	Urban	Farm	Total
Mileage:					
Total mileage travelled	79, 187 46, 600 244. 1 31. 3	111, 444 11, 700 38. 1 59. 5	64, 434 5, 100 7.3 62.9	200, 107 2, 400 11. 7 64. 0	455, 172 4, 200 38. 2 57. 0
Fuel:	AT DECEMBER	A THE			
Total gallons of gasoline consumed '000 Miles per gallon of gasoline Total gallons of diesel oil consumed '000 Miles per gallon of diesel oil Total gallons of other fuel consumed '000 Miles per gallon of other fuel	9,237 5.3 5,004 6.0	10,948 9.6 1,046 6.1	6,065 10.6	16, 368 12. 2 - - -	42.618 9.8 6.050 6.0
Weight of goods carried:	12.7	1000			
Total tons of goods carried '000 Average weight carried ton	2.605 11.7	5. 545 4. 7	7,476 2.3	11,564	27, 190 5, 3
Net ton miles:					
Total net ton miles performed	635, 824 374,000	211, 452 22, 200	54, 421 4, 300	135,850 1,600	1,037,547 9,600
Capacity ton miles:		and the same		THE RESERVE	
Total capacity ton miles	1, 127, 420 663, 200 56, 4	522, 344 54, 700 40. 5	164.676 13.100 33.0	503, 504 6, 000 27. 0	2,317,944 21,500 44.8
Gross ton miles:					
Total gross ton miles	1, 483, 882 872, 900	645, 910 67, 700	222, 337 17, 700	691, 274 8, 200	3, 043, 403 28, 300
Revenue:					
Total revenue \$'000 Devenue per ton mile ¢ Devenue per mile (total mileage travelled) ¢ ************************************	31,733 5.0 40.1 18,700		=	4440 	
Estimated annual population	1,700	9, 542	12,558	83,900	107,700

TABLE 2. All Trucks by Gross Vehicle Weight Group

	0-2½ tons 0-5,000 lh.	2½-5 tons 5,001-10,000 lb.	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.	10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled'000 Average yearly mileage per truck Average distance each ton was carried Percentage of total mileage travelled empty	134,785 4,900 15.0 78.0	127, 944 3, 100 12, 4 61, 6	29,314 2,400 11.0 51.8	28, 928 2, 100 11.6 46.7	40, 535 4, 100 16.8 39.0	93,666 34,600 95.7 33,3	455, 172 4, 200 38, 2 57, 0
Fuel:							
Total gallons of gasoline consumed '000 Miles per gallon of gasoline Total gallons of diesel oil consumed '000 Miles per gallon of diesel oil Total gallons of other fuel consumed '000 Miles per gallon of other fuel consumed '000 Miles per gallon of other fuel "	9, 105 14.8 — —	10, 058 12.7 — — —	2,861 10.2	3,498	5,531 7.3 — —	11,565 5.0 6,050 6.0	42,618 9,8 6,050 6.0
Weight of goods carried:						3.7	
Total tons of goods carried	649 0.3	4, 145 1. 0	2,550 2.0	4,713 3,5	7,027 4.8	8, 106 12, 4	27, 190 5, 3
Net ton miles:						76.0	
Total net ton miles performed	9,774 400	51, 264 1, 200	28, 028 2, 300	54,635 4,000	118, 241 11, 900	775, 605 286, 700	1, 037, 547 9, 600
Capacity ton miles:						Tint- Trial	
Total capacity ton miles'	113,501 4,100 8.6	240,013 5,800 21.4	89,540 7,500 31.3	159,792 11,600 34,2	310,582 31,300 38,1	1, 404, 516 519, 200 55, 2	2, 317, 944 21, 500 44. 8
Gross ton miles:							
Total gross ton miles	233,710 8,400	387, 175 9, 300	127, 771 10, 600	173, 168 12, 500	314,642 31,700	1,806,937 668,000	3, 043, 403 28, 300
Estimated annual population	27,763	41, 484	12,017	13,817	9,914	2,705	107,700

See footnotes at end of Table 6, page 9.

TABLE 3. Selected Statistics by Gross Vehicle Weight Group

					For hire			
Gross vehicle weight	goods tr		al miles velled th load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons		'000	,000	tons	miles	\$'000	¢
30,000 lb. and under	354	5,812		21,698	3.7	61.3	3,456	15.9
30,001-50,000 lb.	552		16,702	140,550	8.4	254.7	10,071	7.2
50,001 lb. and over	1,699		31,879	473,576	14.9	278.7	18,206	3.8
Totals	2,605		54,393 635,824		11.7	11.7 244.1		5.0
					Private intercity			
	Weight of goods carried		trav	miles elled load	Total net ton miles	Averag weigh carried	t	Average distance per ton
	'000 tons		'(	000	'000	tons		miles
10,000 lb. and under		157		15,422	9,971		0.6	63.5
10,001 - 20,000 lb.		581		7,456	17,375	32.00	2.3	29.9
20,001 - 30,000 lb,	1,	793		11,107	52,624	Na mil	4.7	29.4
30,001 lb. and over	3,	014		11,157	131,482		11.8	43.6
Totals	5.	545		45,142	211,452	10000	4.7	38.1

TABLE 4. Selected Statistics by Commodity Group

				For hire					
Commodity group	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile		
	'000 tons	'000	'000	tons	miles	\$'000	¢		
Live animals	134	2,741	28,452	10.4	213.2	1,234	4.3		
Food, feed, beverages and tobacco	236	5,501	59,510	10.6	251.9	2,802	4.7		
Crude materials, inedible	84	1,453	21,788	15.0	258. 1	661	3,0		
Fabricated materials, inedible	1,132	14,181	220, 127	15.5	194.4	7, 866	3.6		
End products, inedible	295	13,223	109,624	8.3	372.1	9,490	8.7		
General freight	724	17, 294	196,323	11.4	271.2	9,680	4.9		
Totals	2,605	54, 393	635,824	11.7	244.1	31,733	5,0		
	Private intercity								
	Weight of goods carried	tran	l miles velled	Total net ton miles	Averag weigh carrie	it d	Average istance per ton		
	'000 tons	,	000	'000	tons		miles		
Live animals		95	1,556	15, 192		9.8	159.0		
Food, feed, beverages and tobacco		500	10,453	48,355		4.6	96.7		
Crude materials, inedible	2,	971	4,762	48,700	122.00	10.2	16.4		
Fabricated materials, inedible	1,	526	9,996	53,731		5.4	35.0		
End products, inedible		356	15,296	34,261		2.2	96.2		
General freight		97	3,079	11,213	YX	3.6	<b>116.</b> 0		
Totals	5,	545	45,142	211,452		4.7	38, 1		

#### SECTION II. TRAFFIC PERFORMED BY SASKATCHEWAN REGISTERED TRUCKS WITHIN THE PROVINCE JANUARY 1-DECEMBER 31, 1961

#### TABLE 5. All Trucks by Type of Operation

		For hire		Private		
		ror nire	Intercity	Urban	Farm	Total
Mileage:						
Total mileage travelled Average yearly mileage per truck Average distance each ton was carried Percentage of total mileage travelled empty	'000	49,637 29,200 150.6 33.4	105,308 11,000 32.3 60.4	64, 434 5, 100 7, 3 62, 9	200, 107 2, 400 11, 7 64, 0	419,486 3,900 27,2 59,3
Fuel:						
Miles per gallon of gasoline Total gallons of diesel oil consumed "Miles per gallon of diesel oil	,000	6, 162 5. 5 2, 627 6. 0	10,373 9.8 686 6.0	6, 065 10. 6	16, 368 12. 2	38, 968 10. 3 3, 313 6. 0
Weight of goods carried:						
	ton	2, 430 11. 1	5,471	7, 476	11, 564	26, 94 I
Net ton miles:						-
Total net ton miles performed	000	366,026 215,300	176, 761 18, 500	54, 421 4, 300	135,850	733,058 6,800
Capacity ton miles:					-	
Total capacity ton miles <sup>2</sup> Average capacity ton miles per truck  Percentage of capacity utilized	0000	703, 489 4 13, 800 52. 0	460, 191 48, 200 38. 4	164, 676 13, 100 33, 0	503, 504 6, 000 27, 0	1,831,860 17,000 40,0
Gross ton miles:						
Total gross ton miles!  Average gross ton miles per truck	.000	859, 302 505, 500	558,657 58,500	222, 337 17, 700	691, 274 8, 200	2,331,570 21,600
Revenue:					0,000	a 1, 500
Total revenue \$ Revenue per ton mile Revenue per mile (total mileage travelled) Average revenue per truck	'000 ¢ ¢	19,753 5.4 39.8 11,600		100 100 100 100	-	=
Estimated annual population		1,700	9,542	12,558	83, 900	107, 700

TABLE 6. All Trucks by Gross Vehicle Weight Group

	0-24 tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb.	5-71/2 tons 10,001-15,000 lb.	7 <sup>1</sup> / <sub>2</sub> -10 tons 15,00 1-20,000 1b.	10-15 tons 20,001-30,000 1b.	Over 15 tons 30,001 lb. and over	Total
Mileage:							
Total mileage travelled ''000 Average yearly mileage per truck Average distance each ton was carried Percentage of total mileage travelled empty	134, 434 4, 800 15. 0 77. 9	126,524 3,100 12,3 61,5	29, 243 2, 400 11. 0 51. 8	28, 819 2, 100 11.6 46.6	39,733 4,000 16.4 39.1	60,733 22,500 60.2 36.2	419, 486 3, 900 27, 2 59, 3
Fuel:							
Total gallons of gasoline consumed '000 Miles per gallon of gasoline Total gallons of diesel oil consumed '000 Miles per gallon of diesel oil Total gallons of other fuel consumed '000 Miles per gallon of other fuel	9,062 14.8 — —	9, 937 12. 7 — —	2, 853 10. 2 — —	3,482 8,3 —	5, 424 7.3 — —	8, 210 5, 0 3, 313 6, 0	38, 968 10. 3 3, 313 6.0
Weight of goods carried:							
Total tons of goods carried '000 Average weight carried ton	649 0.3	4, 144	2, 550 2. 0	4,704 3.5	7,014 4.8	7,880 12.2	26, 941 4.3
Net ton miles:							
Total net ton miles performed	9.774 400	50, 931 1, 200	27.998 2.300	54, 586 4, 000	115, 297 11, 600	474,472 175,400	733, 058 6, 800
Capacity ton miles:							
Total capacity ton miles <sup>2</sup> '000 Average capacity ton miles per truck Percentage of capacity utilized	113, 216 4, 100 8.6	238, 116 5, 700 21, 4	89,307 7,400 31.4	159, 220 11,500 34.3	304, 116 30, 700 37.9	927,885 343,000 51.1	1,831,860 17,000 40.0
Gross ton miles:							
Total gross ton miles per truck '000	233, 118 8, 400	383,424 9,200	128, 162 10, 700	172, 665 12, 500	307,851 31,100	1, 106, 350 409, 000	2, 331, 570 21, 600
Essimated annual population	27, 763	41,484	12,017	13,817	9,914	2,705	107,700

Net ton miles divided by miles travelied with load.
Capacity ton miles are determined by multiplying the actual total number of miles travelled by the estimated capacity or the weight of the heaviest married, whichever is larger.
Gross ton miles are determined by adding to the total ton miles performed the weight of the vehicle empty (tare) multiplied by total miles travelled.

## SECTION III. INTERPROVINCIAL AND INTERNATIONAL TRAFFIC PERFORMED BY SASKATCHEWAN REGISTERED TRUCKS JANUARY 1 - DECEMBER 31, 1961

TABLE 7. Tons of Goods Carried by Province of Origin and Destination

		For hire		Pri	vate interci	ty¹	Total			
Origin and destination	Into Saskat- chewan	Out of Saskat- chewan	Total	Into Saskat- chewan	Out of Saskat- chewan	Total	Into Saskat- chewan	Out of Saskat- chewan	Total	
The state of the s					'000 tons	4-10				
Newfoundland		_	_							
Prince Edward Island	-	-	-							
Nova Scotia	-	-	-							
New Brunswick	_	-	-							
Quebec	-	3	3		311					
Ontario	27	8	35		76.1					
Manitoba	132	263	395				100			
Alberta	93	42	135				1 4			
British Columbia	3	-	3					1119		
United States	1	_	I							
Totals	256	316	572							

TABLE 8. Selected Statistics by Commodity Group

				For hire			
Commodity group	Weight of goods carried	Total miles travelled with load	Total net ton miles	Average weight carried	Average distance per ton	Total revenue	Revenue per ton mile
	'000 tons	'000	'000	tons	miles	\$'000	¢
Live animals	83	1, 497	20,007	13.4	316.8	754	3.8
Food, feed, beverages and tobacco	42	1,844	25, 181	13.7	594.7	620	2.5
Crude materials, inedible	9	320	5, 291	16.5	570. 4	138	2. 6
Pabricated materials, inedible	213	4, 139	74, 952	18. 1	352.6	2, 383	3.2
End products, inedible	54	4,951	45, 409	9. 2	847.7	3,096	6.8
General freight	191	5, 788	74, 443	12. 9	389.0	3, 111	4. 2
Totals	572	18, 539	245, 283	13. 2	428. 6	10, 102	4. 1
			Pr	ivate intercity <sup>1</sup>			
	Weight of goods carried	trave	miles elled load	Total net ton miles	Average weight carried	d	iverage istance per ton
	'000 tons	'0	000	'000	tons		miles
Live animals							
Food, feed, beverages and tobacco		11 11 18					
Crude materials, inedible							
Fabricated materials, inedible							
End products, inedible							
General freight							
Totals		3.0					

<sup>1</sup> Reliable statistics not available.

#### APPENDIX

		Miles I		A. Pop	oulation						
Type of operation	0-2½ tons 0-5,000 lb.	2½-5 tons 5,001-10,000 lb,	5-7½ tons 10,001-15,000 lb.	7½-10 tons 15,001-20,000 lb.		10-15 tons 20,001-30,000 lb.	Over 15 tons 30,001 lb. and over	Total			
			Estimated Sasks	tchewan t	ruck p	opulation in 1961					
For hire		78	26		71	325	1,200	1,700			
Private:				48.9		3/40					
Intercity	4,215	1,811	495		824	1,365	832	9,542			
Urban	7,148	2,695	593		810	897	415	12,558			
Farm	16,400	36,900	10,903	12, 1		7,327	258	83,900			
Totals	27, 763	41,484	12,017	13,817		9,914	2,705	107,700			
	B. Survey Response										
	Total nutrucks so	elected	Number of questionnaire returned comple		truck	nber of sampled s reported not in tring survey week	Number of quench not returned incomplete s	or returned			
For hire		992		509		20	1	282			
Private:											
Intercity		1,816		689		61	4	515			
Siban		1,857		741		60	5	511			
Paran		3,399		839		1,52	5	1,035			
Totals		8,066		2,778		2,94	5	2,343			

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